



Machine Id 911016-1376 Component

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: Oil Sample only, not changed yet)

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Sodium	ppm	ASTM D5185m		🔺 1857	30	3		
Potassium	ppm	ASTM D5185m	>20	A 714	16	4		
Glycol	%	*ASTM D2982		0.20	NEG	NEG		

Customer Id: GFL625 Sample No.: GFL0077542 Lab Number: 05927749 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



22 Jun 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

04 Apr 2023 Diag: Wes Davis

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27 Mar 2023 Diag: Don Baldridge



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OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Machine Id 911016-1376

Component **Diesel Engine** Fluic

PETRO CANADA DURON SHP 15W40 (--- GA

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: Oil Sample only, not changed yet)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

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		Apr2021	Apr2022 Jul2022	Dec2022 Apr2023	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077542	GFL0077516	GFL0068192
Sample Date		Client Info		15 Aug 2023	22 Jun 2023	04 Apr 2023
Machine Age	hrs	Client Info		7262	6832	6233
Oil Age	hrs	Client Info		430	603	586
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26	25	20
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	9	8	12
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Caumium	ррпі	ASTIN DOTOOIII		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	106	6	4
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	143	62	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Calcium	ppm	ASTM D5185m	1070	937	909	1051
Phoenhorus	ppm	ASTM D5185m	1150	1082	1005	973
Zinc	ppm	ASTM D5185m	1270	1262	1297	1207
Sulfur	ppm	ASTM D5185m	2060	3307	3618	3126
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	mag	ASTM D5185m	>25	17	3	3
Sodium	ppm	ASTM D5185m	220	A 1857	30	3
Potassium	mag	ASTM D5185m	>20	▲ 714	16	4
Glycol	%	*ASTM D2982		0.20	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.3	1
Nitration	Abs/cm	*ASTM D7624	>20	12.0	9.0	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	21.0	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	15.2	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	16.0	8.8	8.6
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Apr6/21 -

Apr5/22

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Jec28/77

OIL ANALYSIS REPORT



Apr4/23



Certificate L2367

Submitted By: also GFL632 and GFL638 - Glenda Standen